

WHAT IS CLAIMED IS:

- 1                   1.     A method of determining location of a mobile device  
2     having a radio frequency (RF) transceiver, comprising:  
3                   gathering a list of addresses of nearby devices in  
4     communications with a network;  
5                   sending a location request to a location service accessible  
6     through the network accessed wirelessly by the mobile device;  
7                   accessing a database of known device locations;  
8                   correlating the list of addresses with zone information of the  
9     database.
- 1                   2.     The method of claim 1, further comprising:  
2                   receiving from the location service an estimated position of the  
3     mobile device.
- 1                   3.     The method of claim 1, wherein the estimated position  
2     includes a text based description.
- 1                   4.     The method of claim 1, further comprising:  
2                   providing an approximate position of the mobile device to the  
3     location service.
- 1                   5.     The method of claim 4, wherein the approximate position  
2     is determined by a global positioning system (GPS) device.
- 1                   6.     The method of claim 1, further comprising:  
2                   providing a reply to the location service that the estimated  
3     position is incorrect.

1                   7.     A method of determining location of a mobile device  
2     having a radio frequency (RF) transceiver, comprising:  
3                   receiving a location request from a mobile device over a  
4     communications network;  
5                   receiving from a mobile device a list of addresses of devices  
6     nearby the mobile device that are in communications with the  
7     communications network;  
8                   accessing a database of known device locations;  
9                   correlating the list of addresses with zone information of the  
10    database; and  
11                  sending a location estimation to the mobile device.

1                   8.     The method of claim 7, wherein the estimated position  
2     includes a text based description of the position.

1                   9.     The method of claim 7 further comprising:  
2                   receiving an approximate position of the mobile device.

1                   10.    The method of claim 9, wherein the approximate position  
2     is determined by a global positioning system (GPS) device.

1                   11.    The method of claim 7 further comprising:  
2                   receiving from the mobile device that the estimated position is  
3     incorrect.

1                   12.    A method of determining location of a mobile device  
2     having a radio frequency (RF) transceiver, comprising:  
3                   gathering a list of addresses of nearby devices in  
4     communications with a communications network;

5            sending a location request to a location service accessible  
6 through the network accessed wirelessly by the mobile device, the location  
7 service being configured to access a database of known device locations and  
8 to correlate the list of addresses with zone information of the database; and  
9            receiving from the location service a location estimation of the  
10 mobile device.

1            13. The method of claim 12, wherein the location estimation  
2 includes a text based description of the mobile device location.

1            14. The method of claim 12, wherein the location estimation  
2 includes a graphical description of the mobile device location.

1            15. The method of claim 12, further comprising:  
2            providing an approximate position of the mobile device to the  
3 location service.

1            16. The method of claim 15, wherein the approximate position is  
2 determined by a global positioning system (GPS) device.

1            17. The method of claim 12, further comprising:  
2            providing a reply to the location service that the estimated  
3 position is incorrect.

1            18. A system for locating a wireless device in wireless  
2 communications with a communications network, comprising:  
3            access points coupled to the communications network and  
4 being configured to communicate with the wireless device;  
5            at least one other device in communication with the  
6 communications network;

7 a server coupled to the communications network, the server  
8 configured to receive location requests from the wireless device, the location  
9 request including a list of addresses of devices coupled to the  
10 communications network that are nearby the wireless device, the server  
11 configured to correlate the list of addresses with an estimated location, and  
12 the server is configured to send the estimated location to the wireless  
13 device.

1 19. The system of claim 18, wherein the wireless device  
2 includes a Bluetooth transceiver.

1 20. The system of claim 18, wherein the wireless device includes  
2 an IEEE 802.11 transceiver.

1 21. The system of claim 18, wherein the at least one other device  
2 includes a printer.

1 22. The system of claim 18, wherein the at least one other device  
2 includes a computer.

1 23. The system of claim 18, wherein the wireless device is  
2 configured to provide the estimated location of the wireless device on a  
3 graphical map.

1 24. A method for developing a database for a location determination  
2 service, comprising:

3 building a map of an area served by a network;

4 entering the locations of stationary and permanent devices and  
5 the associated device addresses into a database;

6                    recording, using a test device, multiple locations accessible  
7    wireless addresses;  
8                    combining the map, the locations of stationary and permanent  
9    devices, and the accessible locations into the database; and  
10                  defining coverage zones of the area served by the network.

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